

4.463 Building Technology III: Building Structural Systems II Advanced Structures and Building Envelopes

Assignment 3

Due in one week, *at the start of class.*

Specify a steel column/beam combination that accommodates the load as shown.

Joint types are as follows:

A: pin support

B: roller support

C,D: moment connections

The beam should satisfy both bending moment stress and shear stress limitations for A36 steel.

The maximum deflection should be $L/150$

